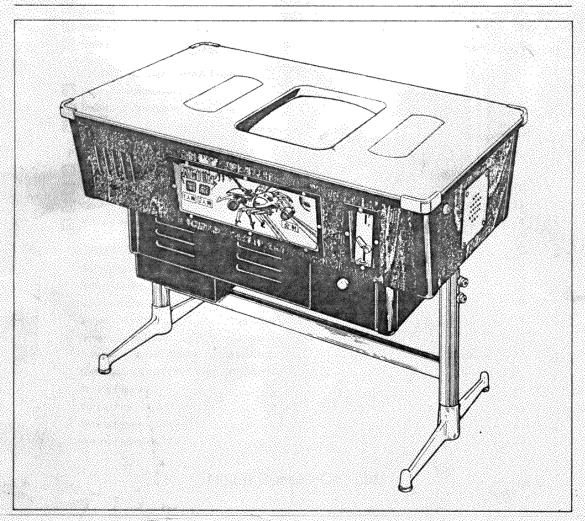


# SERVICE INSTRUCTION





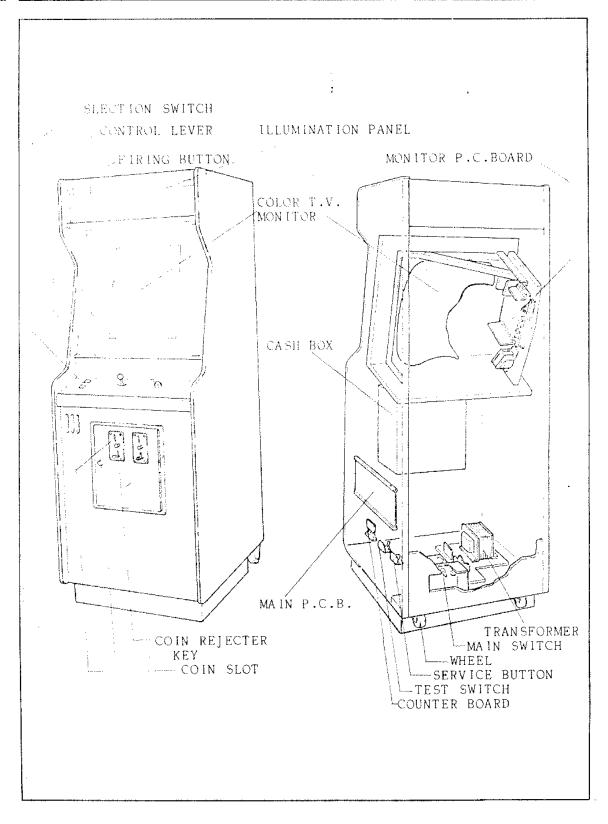
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Nihon Bussan Co., Ltd.

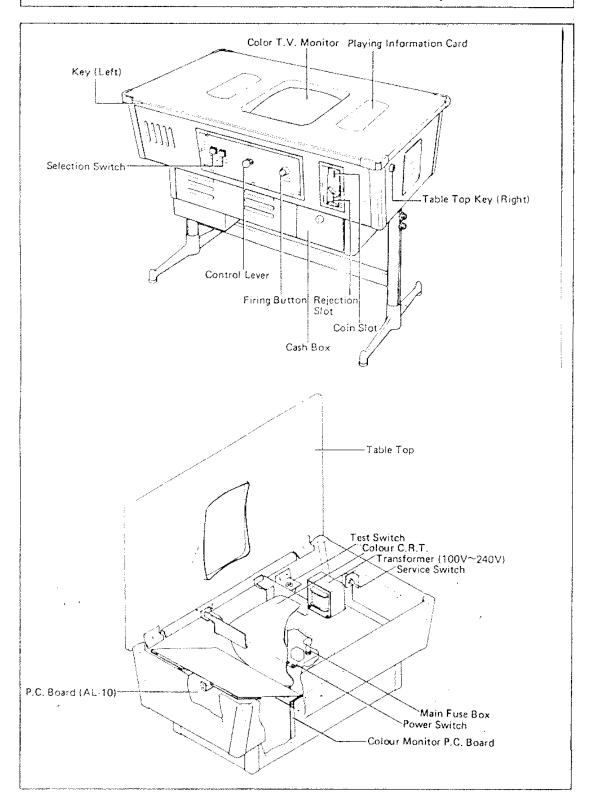


### EACH PARTS NAME (UPRIGHT MODEL)



# パートII MOON ALIEN

### EACH PARTS NAME



# 2

### **SPECIFICATIONS**

POWER SOURCE : 100 ~ 240V (Variable)

WATT CONSUMPTION : 90W

COINAGE: 1 coin per play, 1 coin per 2 palys,

2 coins per play, Free play.

PLAYER : 1 or 2 players

GAME LIMIT : 3 or 5 lasers

CASH BOX SIZE : Width 137mm

Height 140mm Depth 240mm

DIMENSIONS : Width 836mm

Depth 536mm

Height 600 ~ 740mm (5 position adjustable)

KEYS : Table keys 2 sets

Cash box key 1 set

FUSE RATING : 1 at 10A, 1 at 5A, 1 at 2A

These instructions and specifications may be changed without prior notification.

• If this machine is reconstructed without our permission, we can not take responsibility for the machine.



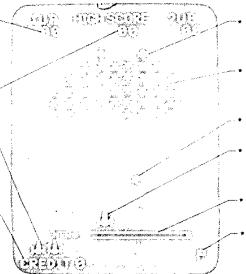
### **NOTES**

- The part II moon alien has a T.V. monitor and care must be taken in moving this fragile machine.
- To prevent the cabinet over-heating do not place the moon alien directly in the sun or near heating.
- For a short time after connecting to power, the picture may be temporarily distorted.
- Do not check the solid state module with a tester even if you find out there is something wrong with it. The IC may be destroyed by the voltage of a tester.
- Disconnect the power supply before inserting or removing the P.C. board.



### **HOW TO PLAY**

- The game may be played by one or two people.
- Insert coins,
- · Select one or two player button.
- Move the control lever and slide the nostromo to the left or to the right.
- Avoid the attack from the aliens and fire the missiles from nostromo by pushing the firing button.
- Each alien has a different score according to it's color and position.
- Score
   The first player's score is recorded at the top left of the screen, with the second player's telly at the top right. The maximum attainable score is 999,900.
- High Score The highest score thus far attained is proudly displayed at the top center of the screen, a goal for every successive player to strive for.
- Nostromo Spacecraft Standing By. Nostromo Spacecraft standing by for launching are displayed at the lower left of the screen. One additional Nostromo is added whenever a predetermined score is attained.
- Credits
   Coins can be deposited in bulk, up to a total of nine games. The number of games/credits remaining is indicated at the bottom left of the screen.



#### Alien Ships

Various scores are registered, depending on the circumstances under which the alien ships are shot down in battle.

#### Aliens

Scores also differ according to the kind of ship shot down — types of alien spacecraft are distinguished by color.

#### Assaulting Alien

Aften ships drop out of fleet formation to launch their missies.

#### Nostromo Spacecraft

The Nostromo Spacecraft, faunched by the Earth Defense Forces, maneuver through the enemy bombardment to destroy aften ships.

#### Energy Gauge

Running out all your energy, your NOSTROMO is desproyed.

#### \* Number of Clears

The number of clears appears at the bottom right of the screen, indicating clear times. A large screen is displayed for the tenth screen.

### **SCORE**

# ALIEN SHIPS and ALIEN









Inside Army Corps

**During Assault** 

60 Points
Points

50 Points 100 Points 40 Points 80 Points 30 Points

Double Score

1) An assaulting alien is shot down.



2) An elien ship without escort is shot down.



An alien ship accompanied by one escort is shot down.



4) An alien ship escorted by two escort ships is shot down.



80 Points

 An alien ship is shot down after its two escorts have been shot down.

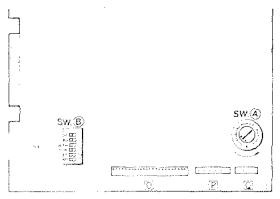


### **ADJUSTMENT INSTRUCTION**

• SW. .A

Switch for the adjustment of sound volume. It will become smaller in turning it to the arrowmark.

• SW. B



DÉSCRIPTION	<u> </u>	(	SW PC	SITIO	N	
(Coinage)	1	2	3	4	5	ó
Free play	ON	ON				İ
1 Coin / 2 play	OFF	ON				
2 Coin / 1 play	ON	OFF				:
1 Coin / 1 play	OFF	OFF				NOT:
(Bonus score)				·		FOR
0			OFF	QFF		USE
4 000			ON	QE É		
5.000			OFF	ON		ļ
7 000	1		ON	ON.		: i
(NOSTROMO)						1
3	:				OFF	
5	:				ON	

- Note Switch adjustment have to be done after disconnect the power supply
  - Switches are set as underlined position when the machine is shipped

#### • SERVICE BUTTON

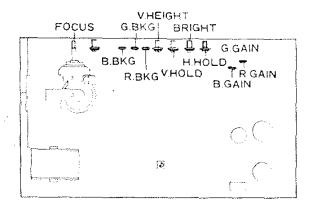
When you repair or adjust the set, it is for use in the case of increasing credit numbers without raising up the counter.



### MONITOR ADJUSTMENT

The monitor is adjusted in best condition when ship it. If there is need to adjust it, do it as follows.

- · H. HOLD:
  - Adjustment for keeping the picture horizontally.
- V. LIN.:
  - Adjustment for vertical lineality.
- . V. HOLD:
  - Adjustment for keeping the picture vertically.
- . BLUE DRIVE RED DRIVE:
  - Adjustment for white balance in bright picture.
- BLUE, GREEN, RED, GAIN:
  - Adjustment for white balance in dark picture.
- FOCUS:
  - Adjustment for focus on picture.





### **SELF TEST**

#### AUTOMATIC SELF TEST

The moon alien begins the self test automatically when it is connected to the power source. After the self test it will start the demonstration pattern on the T.V. monitor. If there is something wrong with P.C. board the monitor will repeat the self test and the letters of "BAD RAM" and "BAD ROM" will appear.

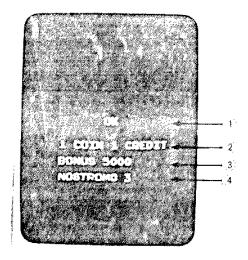
#### SELF TEST BY USING THE TEST SWITCH

When the test switch is turned ON, it will begin the "SELF TEST".

The test switch is "OFF" in the normal position.

The T.V. monitor will show a test pattern of numbers and letters for about 3 seconds.

This indicates that the test of the P.C. board has begun. The following sequence will be indicated on the screen.



- (I) ROM RAM TEST
  "OK" signs normal.
  Numbers signs abnormal.
- COINAGE INDICATION.
- (3) BC : 'S POINTS.
- (4) NUMBERS OF NOSTROMO.
- $2 \sim 4$  is variabe by switch "B" (Ref. Page 4)

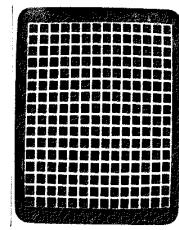
#### SWITCH TEST

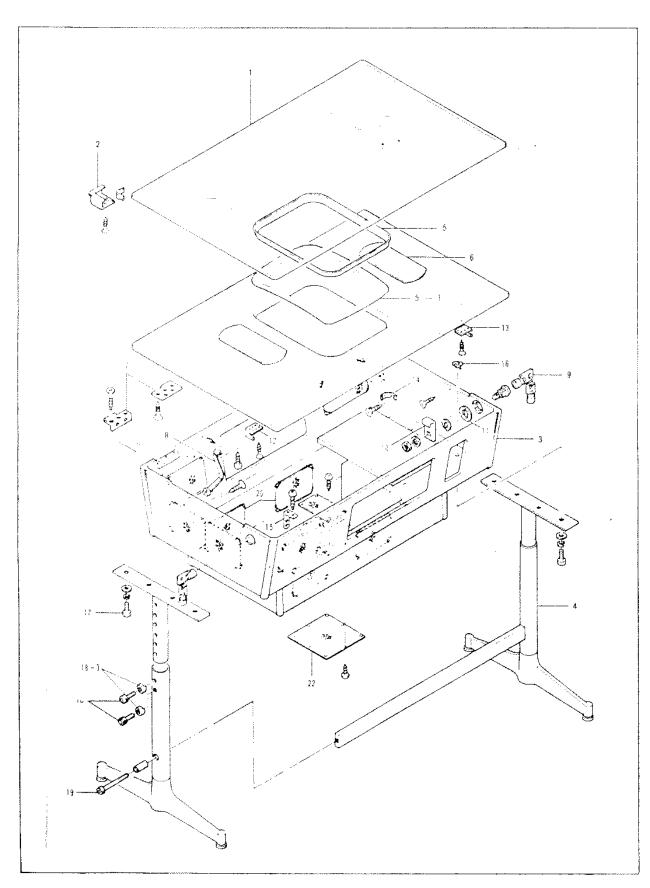
It is in normal condition that it sounds when pressing the firing button, start button (for 10R2), and coin switch.

#### SCREEN ADJUSTMENT

The T.V. monitor shows a block pattern for about one second when the test switch is turned "OFF".

This block pattern is provided to adjust the T.V. monitor and may be kept on the screen by rapidly witching "OFF" to "ON".



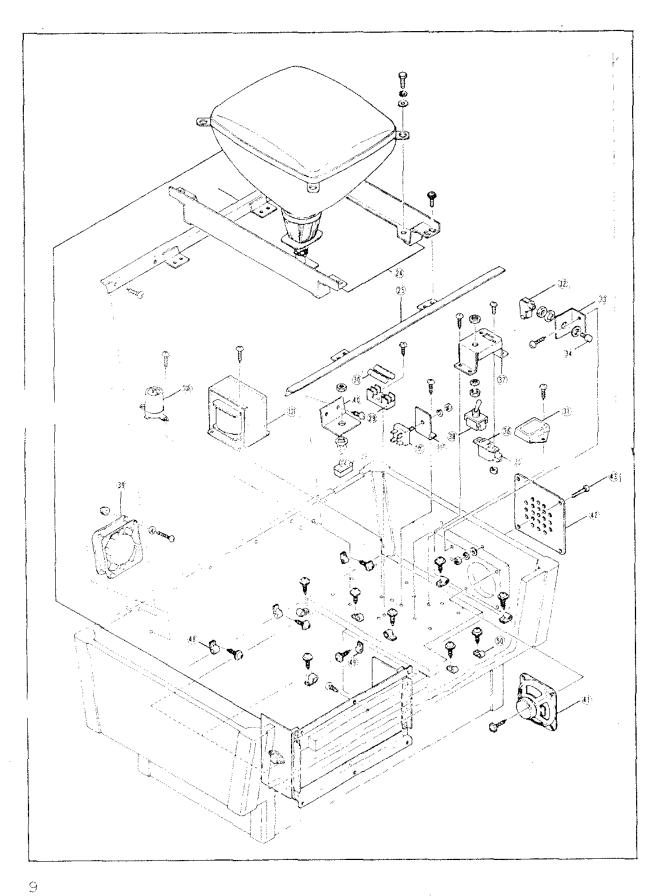


# 3

### **EXTERIOR ASSEMBLY**

NO.	PARTS NO.	DESCRIPTION	UNIT PR
1:	M8-20001	Table Top Glass	12,000
2	TA-50002	Corner Bræcket	900
3	MB-20002	Table Cabinet	29,000
4	TA-50004	Table Leg	18,000
5	TA-50015	TV Mask	640
5-1	TA-50015-1	Smoked Plate	1,200
6	AL20001	Playing Information Card	300
7	TA50004	Hinge	730
8	TA50046	Stay	. 550
9	PC50085	Key (Set)	1,800
4.0	TA50024A	Key Lock Bracket (Left)	250
10	TA500248	Key Lock Bracket (Right)	250
11	PC50081	Key Metal Fittings	104
12	TA50018	Key Lock Bracket (Left)	36
13	BP10004	Key Lobk Bracket (Right)	360
14	TA50047	Corner Metal Fittings	120
15	TA50048	Build Metal Fittings	100
16	TA50092	Claw Nut (5mmφ)	41
17	TA50054	Six-angle Bolt	4
18	TA50055	Cap Bolt (Small)	10
18-1	TA50055-1	Cap Washer	56
19	TA50056	Cap Bolt (Big)	15
20	BP10048	Punching Board	32

<sup>\*</sup> EX-Godown our office in Japanese YEN.

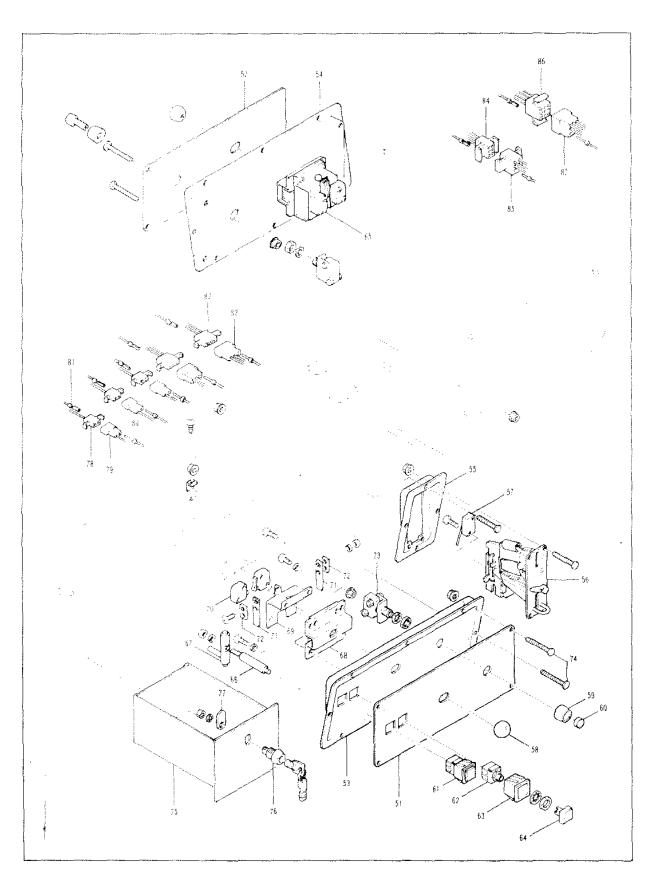


# パートII MOON ALIEN

# 9 VIDEO ASSEMBLY

NO.	PARTS NO.	DESCRIPTION	UNIT PRICE
23	AL20004	Color C.R.T. Assy.	129,000
24	MB 20004	TV Metal Bracket (Right, Left)	2,100
25	MB20005	TV Support Bracket (Front)	1,500
26	MB 20006	TV Support Bracket (Rear)	1,400
121	MB 20007	Transformer (100 ~ 240V)	10,000
29	TA50033	Fuse Holder (2P)	280
30	AL20006	Fuse (10A)	50
31	TA50036	Noise Filter	4,000
32	TA50026	Service SW.	800
33	BP10011	Service SW. Bracket	140
34	BP50028A	Service SW. Button	100
35	BP10016	Oil Capacitor	200
36	BP10015	A.C. Service Socket	120
37	BP10014	Service Outlet Bracket	430
38	BP10017	Power Source Change SW.	380
39	MB20012	Fan	7,500
40	AL20007	Test SW. Bracket	140
41	TA50020	Speaker	1,500
42	TA50023	Speaker Cover	900
43	PC50022	Ornament Speaker Bolt	20
48	PC50029	Nylon Clip (KD-2N)	40
49	PC50030	Nylon Clip (KD-4N)	50
50	PC50031	Nylon Clip (KD-7N)	60
106	MB20009	Rectifier	1,200
107	MB20010	Rectifier Fin	270
108	MB20011	Electrolysis Capacitor	1,500

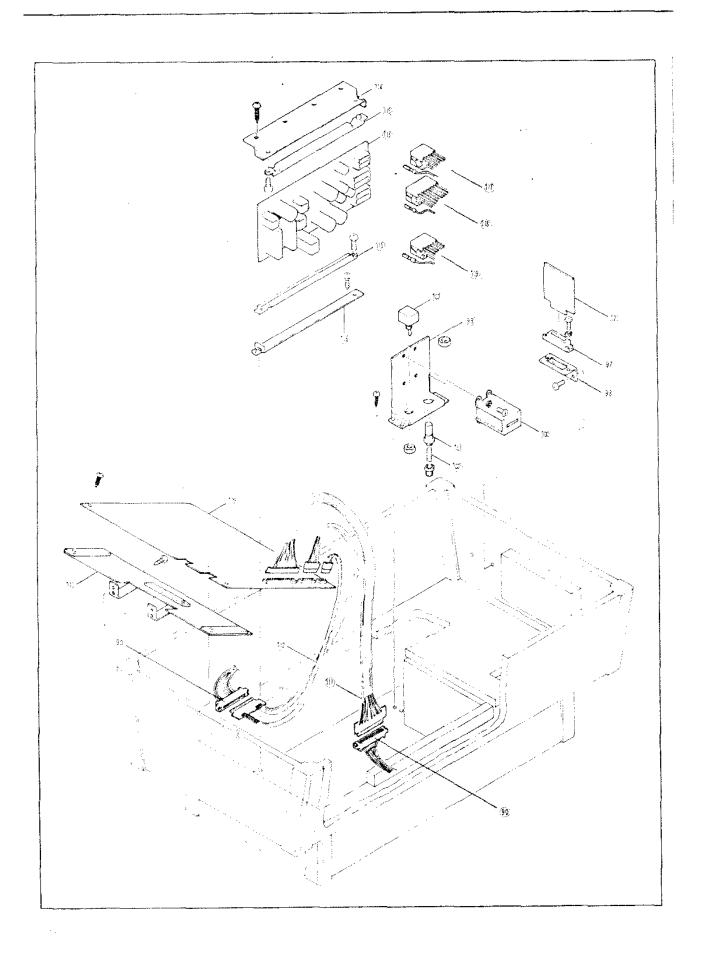
<sup>\*</sup> EX-Godown our office in Japanese YEN.



# 10

## CONTROI PLATE ASSEMBLY

NO.	PARTS NO.	DESCRIPTION	UNIT PRI
51	AL20008	Control Plate A (Front)	2,000
<b>5</b> 2	AL20009	Control Plate B (Rear)	2,000
53	MB20015	Control Panel A (Front)	3,000
54	MB20017	Control Panel B (Rear)	2,500
55	MB20016	Con Cultura Burning	
	AL20018	Coin Selector Bracket	1,600
56	AL20010	Coin Selector	
	AL20019	Com Selector	6,000
57	TA50010	: Micro SW,	1,200
58	MB20018	Control Knob	600
59	MB 20019	Firing Button Base	130
60	M820020	Firing Button	110
61	TA50029	Selection SW. Assy.	1,700
62	TA50029A	Selection SW.	1,200
63	TA50029B	Selection SW. Base	280
64	TA50029C	Selection SW, Button	200
65	AL20011	Control Lever Assy.	9,000
66	MB 20021	Control Shaft	1,200
67	MB20022	Control Lever	800
68	MB20023	Control Base Bracket	1,200
69	MB 20024	Control Mounting Bracket	1,000
70	MB20025	Control Micro SW.	900
71	MB 20026	Spring Plate	100
72	MB 20027	Spring Board Bracket	80
73	MB20028	Firing Micro SW.	1,200
74	PC50022	Ornament Bolt	20
75	ВР	Cash Box	3,000
76	PC50085	Key (For Set)	1,800
77	TA50013	Key Rock Plate	50
78	TA50038	Socket Housing (2R)	60
79 ·	TA50037	Socket Housing (2P)	60
80	TA59939	Pin	30
81	TA50040	Pin	30
82	PC50046	Socket Housing (3R)	80
83	PC50045	Socket Housing (3P)	80
84	PC50042	Socket Housing (6R)	130
85	PC50041	Socket Housing (6P)	130
86	MB20046	Socket Housing (9R)	. 150
87	MB20045	Socket Housing (9P)	150

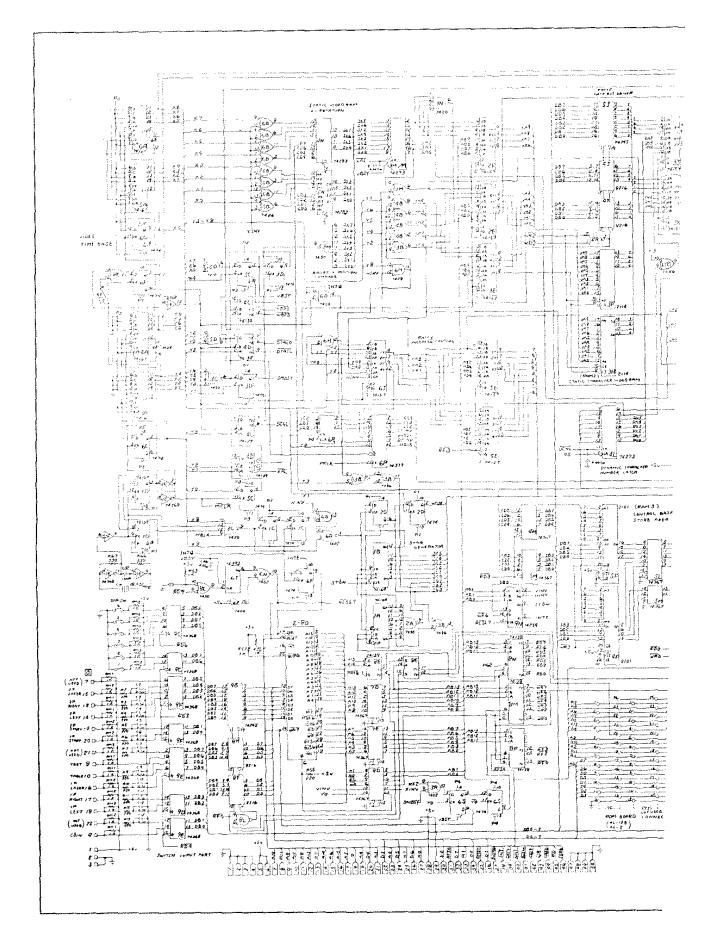




### PRINTED BOARD ASSEMBLY

NO.	PARTS NO.	DESCRIPTION	UNIT PRICE
90	PC50035	Kel Cannector (44P)	950
97	BP10042	Connector	600
98	BP10043	Connector Bracket	450
99	MB20043	Counter Bracket	1,200
100	TA50035	Counter	2,600
101	PC50051	Fuse Holder	300
102	PC50052	Fuse (5A)	50
103	8P10041	Power SW.	380
109	AL20020	AL-10 P.C. Board	270,000
110	AL20021	P.C. Board Bracket (Horizontal Type)	1,500
	AL20022	P.C. Board Bracket (Vertical Type)	1,500
111	AL20023	Conversion P.C. Board (T)	2,500
112	AL 20024	Conversion P.C. Board (U)	2,500
113	MB 20033	MB-4 P.C. Board	. 40,000
114	MB20034	Guide Rail Support Bracket (Upper)	500
115	BP10035	Guide Rail	300
116	MB 2 <b>003</b> 6	Guide Rail Support Bracket (Lower)	480
117	MB20037	Amp. Connector (10P)	340
118	MB 20038	Amp, Connector (18P)	550
119	МВ 20039	Amp. Connector (12P)	390
120	AL20025	. AL-S P.C. Board	3,000

<sup>•</sup> EX Godown our office in Japanese YEN.



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